

ENTERED



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,244

DATE: 06/25/2002

TIME: 10:13:24

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06252002\J040244.raw

3 <110> APPLICANT: KIRIN BEER KABUSHIKI KAISHA
4 FORCE, WALKER F.
5 TAKAHASHI, NOBUAKI
6 MIKAYAMA, TOSHIFUMI
8 <120> TITLE OF INVENTION: ISOLATION AND CHARACTERIZATION OF HIGHLY ACTIVE ANTI-CD40
ANTIBODY
10 <130> FILE REFERENCE: 021286/0272501
12 <140> CURRENT APPLICATION NUMBER: 10/040,244
C--> 13 <141> CURRENT FILING DATE: 2002-06-17
15 <150> PRIOR APPLICATION NUMBER: 60/200,601
W--> 16 <151> PRIOR FILING DATE: 2000-4-28
18 <150> PRIOR APPLICATION NUMBER: PCT/US01/13672
19 <151> PRIOR FILING DATE: 2001-04-27
21 <150> PRIOR APPLICATION NUMBER: 09/844,684
22 <151> PRIOR FILING DATE: 2001-04-27
24 <160> NUMBER OF SEQ ID NOS: 17
26 <170> SOFTWARE: PatentIn Ver. 3.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 40
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
36 <400> SEQUENCE: 1
37 cccagatctg tccatccaga accaccact gcatgcagag 40
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 41
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
48 <400> SEQUENCE: 2
49 acaagatctg ggctctacgt atctcagccg atcctgggga c 41
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 26
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
60 <400> SEQUENCE: 3
61 gtgcacgccg ctggtcaggg cgcctg 26
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 26
65 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 06/25/2002

PATENT APPLICATION: US/10/040,244

TIME: 10:13:24

Input Set : A:\Sequence.txt

Output Set : N:\CRF3\06252002\J040244.raw

```

66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
71 <400> SEQUENCE: 4
72     gttgaagctc tttgtgacgg gcgagc                26
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 30
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
83 <400> SEQUENCE: 5
84     accgtgtcga cggtgatcag gactgaacag            30
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 29
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
95 <400> SEQUENCE: 6
96     accgtgtcga cgctgatcag gactgcaca            29
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 24
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
107 <400> SEQUENCE: 7
108     agtgctagct gaggagacgg tgac                24
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 30
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
119 <400> SEQUENCE: 8
120     aactccagat ctagggcaag cagtggtaac            30
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 30
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
131 <400> SEQUENCE: 9
132     tatcccgta cggttgatctc caccttggtc            30
135 <210> SEQ ID NO: 10
136 <211> LENGTH: 520
137 <212> TYPE: DNA
138 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,244

DATE: 06/25/2002

TIME: 10:13:24

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06252002\J040244.raw

```

140 <400> SEQUENCE: 10
141   gctgatcagg actgcacaca gagaactcac catggagttt gggctgagct gggttttcct 60
142   tgttgctatt ttaaaagggtg tccagtgtga ggtgcagctg gtggagtccg ggggaggctt 120
143   agttcagcct ggggggtccc tgagactctc ctgtgcagtc tctggattca ccttcagtac 180
144   ctactggatg cactgggtcc gccaaactcc aggggaagggg ctggtgtggg tctcacgtat 240
145   taatagtgat gggagtagca caacctacgc ggactccgtg aagggccgat tcaccatctc 300
146   cagagacaac gccaagaaca cgctgtatct gcaaataaac agtctgagag ccgaggacac 360
147   ggctgtgtat tactgtgcaa gagatagagt actatggatc ggggagttat cctactacgg 420
148   tatggacgtc tggggccaag ggaccacggt caccgtctcc tcagctagca ccaagggcc 480
149   atcgggtctc cccctggcac cctcctccaa gaggacctct 520
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 698
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 11
158   ggggagtcag acccagtcag gacacagcat ggacatgagg gtccccgctc agtcctctgg 60
159   gctcctgctg ctctgggtcc cagggtgcaa atgtgacatc cagatgacct agtctccttc 120
160   caccctgtct gcatctgtag gagacagagt caccatcact tgccgggccca gtcagagtat 180
161   tagtaactgg ttggcctggt atcagcagaa accagggaaa gccctaagc tcctgctcta 240
162   taaggcatct ggttttagaaa gtgggggtccc atcaagggtc agcggcagtg gatctgggac 300
163   agaattcact ctaccatca acagcctgca gcctgatgat tttgcaactt attactgcca 360
164   acagtctaata agttattcgt ggacgttcgg ccacgggacc aagggtgaaa tcaaacttac 420
165   ggtggctgca ccatctgtct tcatcttccc gccatctgat gagcagttga aatctggaac 480
166   tgctctgtgt gtgtgctgct tgaataactt ctatcccaga gaggccaaag tacagtggaa 540
167   ggtggataac gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa 600
168   ggacagcacc tacagcctca gcagcaccct gacgtgagc aaagcagact acgagaaaca 660
169   caaagtctac gcctgcgaag tcaccatca gggcctga 698
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 580
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 12
178   ggtgatcagg actgaacagg gagaactcac catggagttt gggctgggct ggctttttct 60
179   tgtggctatt ttaaaagggtg tccagtgtga ggtgcagctg ttggagtctg ggggaggctt 120
180   ggtacagcct ggggggtccc tgagactctc ctgtgcagcc tctggattcg cttttagcag 180
181   ctatgccatg agctgggtcc gccaggctcc aggggaagggg ctggagtggg tctcagctat 240
182   tagtggtagt ggtggttagca catactacgc agactccgtg aagggccggt tcaccatctc 300
183   cagagacaat tccaagaaca cgctgtatct gcaaataaac agcctgagag ccgaggacac 360
184   ggccgtatat tactgtgcga aagatggggg gtactatggt tcggggagtt atgggtactt 420
185   tgactactgg ggccagggaa ccctggtcac cgtctcctca gctagacca agggcccatc 480
186   ggtcttcccc ctggcaccct cctccaagag cacctctggg ggcacagcgg ccctgggctg 540
187   cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 580
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 716
192 <212> TYPE: DNA
193 <213> ORGANISM: Homo sapiens
195 <400> SEQUENCE: 13
196   caacgcagag tacgcgggga ggagtcagac ccagtcagga cacagcatgg acatgagggt 60
197   ccccgctcag ctctgggggc tctgtctgct ctggttccca ggttccagat gcgacatcca 120

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,244

DATE: 06/25/2002

TIME: 10:13:24

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06252002\J040244.raw

```

198      gatgacccag tctccatctt ccggtgtctgc atctgcagga gacagagtca ccatcacttg 180
199      tcgggagagt caggggtatta gcagctgggt agcctgggtat caacagaaac cagggaaagc 240
200      ccctaagctc ctgatctatg ctggatccag ttgtcaaagt ggggtcccat caagggttcag 300
201      cggcagtgga ttgtggacag atttcactct caccatcggc agcctgcagc ctgaagattt 360
202      tgcaacttac tattgtcaac aggctagcag ttccctcggc acgttcggcc aagggaacca 420
203      ggtggagatc aaacgtacgg tggctgcacc atctgtcttc atcttccgc catctgatga 480
204      gcagttgaaa tctggaactg cctctgttgt gtgctgtctg aataacttct atcccagaga 540
205      ggccaaagta cagtggaaag tggataacgc cctccaatcg ggtaactccc aggagagtgt 600
206      cacagagcag gacagcaagg acagcaccta cagcctcagc agcaccctga cgctgagcaa 660
207      agcagactac gagaaacaca aagtctacgc ctgcgaagtc acccatcagg gcctga 716
210 <210> SEQ ID NO: 14
211 <211> LENGTH: 630
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 14
216      ggtctatata agcagagctg ggtacgtcct cacattcagt gatcagcact gaacacagac 60
217      ccgctcgacg tgatcaggac tgaacagaga gaactcacca tggagtttgg gctgagctgg 120
218      ctttttcttg tggctatatt aaaaggtgtc cagtgtgagg tgcagctgtt ggagtctggg 180
219      ggaggtttgg tacagcctgg ggggtccctg agactctcct gtgcagcctc tggattcacc 240
220      tttagcagct atgcatgag ctgggtccgc caggctccag ggaaggggct ggagtgggtc 300
221      tcagctatta gtggtagtgg tggtagcaca tactacgcag actccgtgaa gggccggttc 360
222      accatctcca gagacaattc caagaacacg ctgtatctgc aaatgaacag cctgagagcc 420
223      gaggacacgg ccgtatatta ctgtgcgaaa gatggggggg actatggttc ggggagttat 480
224      gggtaacttg actactgggg ccagggaacc ctggtcaccg tctcctcagc tagaccaag 540
225      ggcccatcgg tcttccccct ggcaccctcc tccaagagca cctctggggg cacagcggcc 600
226      ctgggtgccc tggtaagga ctacttcccc 630
229 <210> SEQ ID NO: 15
230 <211> LENGTH: 728
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 15
235      caagcagtg taacaacgca gactacgagg ggggagtcag acccagtcag gacacagcat 60
236      ggacatgagg gtcctcctgc agctcctggg gctcctgctg ctctgggtcc caggttccag 120
237      atgcgacatc cagatgacct agtctccatc ttcctgtctt ggatctgtag gagacagagt 180
238      caccatcact tgtcgggcca gtcagggtat tagcagctgg ttagcctggt atcagcagaa 240
239      accagggaaa gccctaagc tcctgatcta tgcctggatc agtttgcaaa gtgggggtccc 300
240      atcaagggtc agcggcagtg gatttgggac agatttcaact ctaccatca gcagcctgca 360
241      gcctgaagat ttgtcaactt actattgtca acaggctagc agtttccctc ggacattcgg 420
242      ccaagggacc aaggtggaga tcaaacgtac ggtggctgca ccattctgtt tcatcttccc 480
243      gccatctgat gagcagttga aatctggaac tgctctgtt gtgtgcctgc tgaataactt 540
244      ctatcccaga gaggccaaag tacagtggaa ggtggataac gccctccaat cgggtaactc 600
245      ccaggagagt gtcacagagc aggacagcaa ggacagcacc tacagcctca gcagcaccct 660
246      gacgctgagc aaagcagact acgagaaaca caaagtctac gcctgcgaag tcacccatca 720
247      gggcctga 728
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 124
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 16

```

RAW SEQUENCE LISTING

DATE: 06/25/2002

PATENT APPLICATION: US/10/040,244

TIME: 10:13:24

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06252002\J040244.raw

```

257   Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
258   1                               5                               10                               15
259   Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
260                               20                               25                               30
261   Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
262                               35                               40                               45
263   Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
264                               50                               55                               60
265   Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
266   65                               70                               75                               80
267   Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
268                               85                               90                               95
269   Ala Lys Asp Gly Gly Tyr Tyr Gly Ser Gly Ser Tyr Gly Tyr Phe Asp
270                               100                              105                              110
271   Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
272                               115                              120
275 <210> SEQ ID NO: 17
276 <211> LENGTH: 106
277 <212> TYPE: PRT
278 <213> ORGANISM: Homo sapiens
280 <400> SEQUENCE: 17
282   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Gly Ser Val Gly
283   1                               5                               10                               15
284   Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
285                               20                               25                               30
286   Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
287   35                               40                               45
288   Tyr Ala Gly Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
289   50                               55                               60
290   Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
291   65                               70                               75                               80
292   Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ser Ser Phe Pro Arg
293                               85                               90                               95
294   Thr Phe Gln Gly Thr Lys Val Glu Ile Lys
295                               100                              105

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/040,244

DATE: 06/25/2002

TIME: 10:13:25

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06252002\J040244.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:16 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD